WHAT IS CLAIMED IS:

 A color sensor for measuring light from a light source, said color sensor comprising:

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a plurality of photodetectors;

a plurality of primary color filters, each primary color filter comprising a layer of material between said light source and a corresponding one of said photodetectors, each primary color filter preferentially transmitting light in a corresponding band of wavelengths about a characteristic wavelength; and

a first trim filter located between said light source and said photodetectors, said first trim filter comprising a layer of material that preferentially attenuates light at a first trim wavelength between two of said characteristic wavelengths.

- 2. The color sensor of Claim 1 where said first trim filter further preferentially attenuates light at a second trim wavelength, said first trim wavelength being less than one of said characteristic wavelengths and said second trim wavelength being greater than that characteristic wavelength.
- 3. The color sensor of Claim 1 wherein said first trim filter comprises an interference filter.
- 4. The color sensor of Claim 1 further comprising a substrate having said photodetectors located therein, said first trim filter comprising a first trim filter layer on said substrate.
- The color sensor of Claim 4 wherein said color filters are located on said first trim
 filter layer.
 - 6. The color sensor of Claim 1 wherein said color filters are located between said first trim filter and said photodetectors.

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- 7. The color sensor of Claim 1 further comprising a second trim filter, said second trim filter comprising a layer of material that preferentially attenuates light at a second wavelength that is different from each of said characteristic wavelengths and said first trim wavelength.
- 8. The color sensor of Claim 7 wherein said color filters are located between said first and second trim filters.
- 10 9. A method for fabricating a color sensor, said method comprising:

providing a substrate having a plurality of photodetectors;

bonding a first trim filter layer to said substrate;

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bonding a color filter layer to said first trim filter layer, said color filter layer comprising a plurality of primary color filters, each primary color filter comprising a layer of material between said light source and a corresponding one of said photodetectors, each primary color filter preferentially transmitting light in a corresponding band of wavelengths about a characteristic wavelength,

wherein said first trim filter comprises a layer of material that preferentially attenuates light at a first trim wavelength between two of said characteristic wavelengths.

- 10. The method of Claim 9 where said first trim filter further preferentially attenuates light at a second trim wavelength, said first wavelength being less than one of said characteristic wavelengths and said second wavelength being greater than that characteristic wavelength.
- 30 11. The method of Claim 9 wherein said first trim filter comprises a plurality of transparent layers in which adjacent layers have different indices of refraction.

12. The method of Claim 9 further comprising bonding a second trim filter layer to said color filter layer such that said color filter layer is between said first and second trim filter layers.

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